

**SECTION 26 27 26**  
**WIRING DEVICES**

**PART 1 GENERAL**

**1.1 SUMMARY**

- A. Section Includes: Receptacles, connectors, switches, and finish plates.

**1.2 DEFINITIONS**

- A. GFCI: Ground-fault circuit interrupter.

**1.3 SUBMITTALS**

- A. General: Comply with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES.
- B. Product Data: For each product specified.
- C. Shop Drawings: Legends for receptacles and switch plates.
- D. Closeout Submittals: Submit the following:
  - 1. Maintenance Data: For materials and products.

**1.4 QUALITY ASSURANCE**

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.
- B. Comply with NEMA WD 1.
- C. Comply with NFPA 70 - National Electrical Code.
- D. Comply with NFPA 72 - National Fire Alarm and Signaling Code.
- E. Comply with NFPA 101 - Life Safety Code.

**PART 2 PRODUCTS**

**2.1 MANUFACTURERS**

- A. Manufacturers:
  - 1. Wiring Devices:
    - a. GE Company.
    - b. Hubbell, Inc.
    - c. Leviton Manufacturing Co., Inc.
    - d. Accepted Substitute in accordance with 01 Division Specifications.
  - 2. Floor Service Outlets:
    - a. American Electric.
    - b. Hubbell, Inc.; Wiring Devices Div.
    - c. Square D Co.
    - d. Wiremold.
    - e. Accepted Substitute in Division 01 specifications.

**2.2 RECEPTACLES**

- A. Straight-Blade and Locking Receptacles: General-Duty grade.
- B. GFCI Receptacles: Feed-through type, with integral NEMA WD 6, Configuration 5-20R duplex receptacle arranged to protect connected downstream receptacles on same circuit. Design units for installation in 2-3/4 inch deep outlet box without adapter.

**2.3 CORD AND PLUG SETS**

- A. Description: Match voltage and current ratings and number of conductors to requirements of equipment being connected.

1. Cord: Rubber-insulated, stranded-copper conductors, with type SOW-A jacket. Green-insulated grounding conductor, and equipment-rating ampacity plus minimum of 30 percent.
2. Plug: Nylon body and integral cable-clamping jaws. Match cord and receptacle type for connection.

## **2.4 MOTOR RATED SWITCHES**

- A. Snap Switches: General-duty, quiet type.

## **2.5 WALL PLATES**

- A. Single and combination types match corresponding wiring devices.
  1. Plate-Securing Screws: Metal with head color to match plate finish.
  2. Material for Finished Spaces: Steel with wrinkled finish, white baked enamel, suitable for field painting.

## **2.6 ALARM INITIATING DEVICES**

- A. Manual Fire Alarm Stations:
  1. Shall be non-breakglass, address reporting type.
  2. Station front shall be constructed of a durable material such as cast or extruded metal or high impact plastic. Stations shall be semi-flush type.
  3. Stations shall be of single action pull down type with suitable operating instructions provided on front in raised or depressed letters, and clearly labeled "FIRE".
  4. Operating handles shall be constructed of a durable material. On operation, the lever shall lock in alarm position and remain so until reset. A key shall be required to gain front access for resetting, or conducting tests and drills
  5. Unless otherwise specified, all exposed parts shall be red in color and have a smooth, hard, durable finish.

## **2.7 ALARM NOTIFICATION DEVICES**

- A. Strobes:
  1. Xenon flash tube type with a flash rate of 1 HZ. Candela rates are as specified on the construction drawings.
  2. Backplate shall be red with 13 mm (1/2 inch) permanent red letters. Lettering to read "Fire", be oriented on the wall or ceiling properly, and be visible from all viewing directions.
  3. Each strobe circuit shall have a minimum of twenty (20) percent spare capacity.
  4. Strobes may be combined with the audible notification appliances as shown on the construction drawings.
- B. Fire Alarm Horns:
  1. Shall be electric, utilizing solid state electronic technology operating on a nominal 24 VDC.

## **2.8 FINISHES**

- A. Color: White, unless otherwise indicated or required by Code.

## **PART 3 EXECUTION**

### **3.1 INSTALLATION**

- A. Install devices and assemblies plumb and secure.
- B. Install wall plates when painting is complete.

- C. Arrangement of Devices: Unless otherwise indicated, mount flush, with long dimension vertical, and grounding terminal of receptacles on top. Group adjacent switches under single, multigang wall plates.
- D. Protect devices and assemblies during painting.

### **3.2 IDENTIFICATION**

- A. Switches: Where three or more switches are ganged, and elsewhere as indicated, identify each switch with approved legend engraved on wall plate.
- B. Receptacles: Identify panelboard and circuit number from which served. Use machine-printed, pressure-sensitive, abrasion-resistant label tape on face of plate and durable wire markers or tags within outlet boxes.

### **3.3 CONNECTIONS**

- A. Connect wiring device grounding terminal to outlet box with bonding jumper.
- B. Connect wiring device grounding terminal to branch-circuit equipment grounding conductor.
- C. Tighten electrical connectors and terminals according to manufacturers published torque-tightening values. If manufacturers torque values are not indicated, use those specified in UL 486A and UL 486B.

### **3.4 FIELD QUALITY CONTROL**

- A. Test wiring devices for proper polarity and ground continuity. Operate each device at least six times.
- B. Test GFCI operation with both local and remote fault simulations according to manufacturer's written instructions.
- C. Replace damaged or defective components.

### **3.5 CLEANING**

- A. Cleaning: Comply with Section 01 74 19, CONSTRUCTION WASTE MANAGEMENT. Internally clean devices, device outlet boxes, and enclosures. Replace stained or improperly painted wall plates or devices.

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